1950:51 **File No.** 3930/36

P. W. J

**B CLASS.** **DEPARTMENT** **BRANCH**

20

**Subject:—** Budget Grant

B(F)1950

**File No.** 3930/36. J

Ltd., Scott. Slip. 24 A.

G R., G D., No. 2408, dated 22-5-22.]

Correspondence

# DOCKET SHEET (B)

*Subject :—*

File No. 3930/36

P.W DEPT.

J. BRANCH.

*References :—*

Copies of the manifold B (c) 1936 supplied by the Region.

| Date. | To whom sent. | Notes and instructions. |
|---|---|---|
| | | |

| Quantity: | Items. | : Rate | : Per | : Amount. |
|---|---|---|---|---|

Type estimate of 4'-0" Hexagonal
6" thick c.c. lined well.
Depth - 40"-0" (Hyderabad type).

Recapitulation.

| | | |
|---|---|---|
| Sub-estimate No.1(1). | Excavation Portion ~~Excavation portion.~~ | |
| Sub-estimate No.2(2). | Steining in c.c. lining, parapet platform etc. | |
| Sub-estimate No.3(3) | Soak pit. | |
| Sub-estimate No.4(4) | Cattle-trough. | |

Add contingencies @ %.

Add work-charged Establishment

@ %

Net cost or say, Rs.

Add % Establishment Tools and Plant Charges.

Gross cost. Rs.

Sd/- N.V.S.Murti,
Chief Engineer to Government,
Public Works Department, Bombay

PAF.

| Quantity: | Items | :Rate:Per | : Amount |
|---|---|---|---|
| | Rs. A. P. | | |
| | Type estimate for Village Water Supply Well 4'-0" Hexagonal 6" thick cement concrete lined well 40'-0" deep. | | |
| | Sub-estimate No.1 - Excavation Portion. | | |
| 1135 cft. | (1)Excavation in soil,soft murum and other soft materials with side slopes 1:1 including all lead stacking of materials neatly etc. complete 0' to 5'. | Cft. 100 | |
| 393 cft. | (2) -do- in hard murum and similar stuff including --do-- 5' to 10' | -do- | |
| 1178 " | (3) -do- in soft rock including -do- complete 10' to 25'. | -do- | |
| 1185 " | (4) -do- in hard rock including -do- complete 25' to 40'. | -do- | |
| Job. | (5) ~~Testing the yield of the well departmentally, if required~~ | | |
| | Bailing out water during excavation as may be found, necessary. | Lump. | |
| Job | (6) Testing the yield of the well departmentally, if required. | | |
| | Grand total. | Rs. | |
| | Sub-estimate No.2.Steining of cement concrete, platform,parapet etc. | | |
| 515 cft. | (1)Providing cement concrete lining (1:3:6) 6" think properly mixed, rammed and cured including rendering and pointing between curbs with cement morter (1:3), watering,with weep holes for bottom 10'-0 height etc. complete. | Cft. | |
| 131.Cft. | (2) (a) Filling extra excavation with boulders made available during excavation behind the cement concrete lining for bottom 10"-0" depth including ramming etc. complete. | Cft. 100 | |
| 778 Cft. | (b) -do- extra excavation with excavated stuff --do--- complete. | -do- | |
| 418 Cft. | (c)-do- extra excavation with stone filling - do - complete. | -do- | |
| 32 Cft. | (3) Parapet - providing cement concrete lining (1:2:4) 6" thick with panel reinforcement including ~~reinforcement~~ form work, curing,watering etc.complete. | Cft. | |

| Quantity: | Rates | Rate: | Per : Amount |
|---|---|---|---|
| 113 Cft. | (4) Providing paving for platform in uncoursed rubble mansonry 6" thick in cement mortar (1:6) laid on 6" cement concrete (1:3:6) well rammed and project ing 6" beyong the edge of mano-nry with necessary slopes for dis-charge of waste water inclu-ding cement pointing etc.com-plete. | 100 sft. | |
| 18 Nos. | (5) Providing 5/8" flat iron steps at the junction of evry two curbs each of 2'-0" height leaving top 4' of c.c. lining including fixing painnting etc. complete. | No. | |
| 50 Rft. | (6) Providing stone curbing wall 13½"x4" projecting 4½" above plat-form level to act as gutter for leading split water to drain. | Rft. | |
| 6 Nos. | (7)Providing and fixing trap stone or cement concrete Mukti stones in cement mortar (1;6) including boring holes and cement pointing etc. complete. | No. | |
| 5.5 Cft. | (8) Providing and fixing cut teak wood work including finishing, coal tarring etc. complete. | Cft. | |
| 12 Rft. | (9) -do- angle iron stays for rahat posts with necessary bolts,nuts etc. complete. | Rft. | |
| 4 Nos. | (10) -do- foundation bolts with neces-sary nuts for anchoring rahat hori-zontals. | No. | |
| 2 Nos | (11) -do- Kirloskar pattern iron rahat including fixing,oiling,painting, etc. complete. | No | |
| | Or. | | |
| 2 No | (12) Providing iron pulley with necessary frame, bracket,bolts,nuts including fixing,oiling,painting etc. complete. | No. | |
| 50 Rft. | (13) Providing 6" semi-circular drain of cement concrete (1:4:8) laid on well rammed hard murum or boulder filling 6" thick with 6" projections on either side and back- filling etc. complete. | Rft. | |

| Quantity: | Items. | Rate: Per | Amount |
|---|---|---|---|
| 1 No. | (14) Table - Providing a stone or cement concrete table 18" x 15" with words' PUBLIC WELL' and the year of construction, carved in regional language and fixed to the parapet of the well or alternately the above words and figures to be embossed while the parapet lining is green. | No | |
| Job | (15) Providing earth filling all-round the platform for apprach including ramming etc. complete. | Lump. | |
| Job | (16) Bailing out water during construction as may be found necessary. | Lump. | |
| Job | (17) Clearing the well by bailing out water and removal of slit and fallen debris during construction. | Lump. | |
| | Grand Total | Rs. | |

Sub-estimate No.3 - Soak Pit ) Same as included
) in the type
) estimate for
Sub-estimate No.4 - Cattle ) 4'-0" Pentagonal
trough ) well.

PAF.

MEASUREMENT.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| | No. | Length | Breadth | Depth | Quantity | Total |
| Type estimate for Village Water Supply well 4'-0" Hexagonal 6" cement concrete lined well, 40'-0" deep in rocky soils. | | | | | | |
| Sub-estimate No.1 Excavation portion. | | | | | | |
| (1) Excavation in soil, soft murum and other soft materials with side slopes of 1 to 1 including all lead stated lift stacking materials neatly etc. | | | | | | |
| Depth. Bottom Diameter 12'-0" Top Diameter 22'-0" | | Area. | | | | |
| 0' to 5 | 1 | $\frac{\text{II} \times 17^2}{4}$ | - | - 5'-0" | 1135 | Cft. |
| (2) Excavation in hard murum and similar stuff including all lead stated lift stacking of materials neatly etc. | | Area | | | | |
| 5' to 10' Diameter 10'-0" | 1 | $\frac{\text{II} \times 10^2}{4}$ | | 5'-0" | 393 | cft. |
| (3) -do- in soft rock including all lead stated lift stacking of materials nearly etc. | | | | | | |
| 10' to 25' Diameter 10'-0" | 1 | $\frac{\text{II} \times 10^2}{4}$ | | 15'-0" | 1178 | cft |
| (4) -do- in hard rock including all lead stated lift stacking of materials neatly etc. | | Area. | | | | |
| 25' to 40' Diameter 10'-0" | 1 | $\frac{\text{II} \times 10^2}{4}$ | | 15'-0" | 1178 | cft |
| for sump of 3'-0 diameter. amd 1'-0" deep. | 1 | $\frac{\text{II} \times 3^2}{4}$ | | 1'-0" | 7 | cft. |
| | | | | | 1185 | cft. |
| 5. Bailing out water during excavation as may be found necessary. | | | | | Job | |
| 6. Testing the yield of well departmentally (if necessary) | | | | | Job | |
| Sub-estimate No.2 steining-of-c.c. platform parapet etc. | | | | | | |

PAF.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| 1. Providing cement concrete lining (1:3:6)6" thick properly mixed, rammed including rendering and pointing between curbs with cement mortar (1:3) using moulds of proper size, watering with weep holes for bottom 10'-0" height etc.complete. | | 6 | $\frac{4' \times 4'-7}{2}$ | 0'-6" 40'-0" | 515 | Cft. |
| 2. (a) Filling extra excavation with boulders made available during excavation behind the C.C. lining for bottom 10'-0" depth including ramming etc. complete<br>Diameter of circumscribed circle - 2x4'-7-9'-2" | | 1 | $\frac{II(10^2-9'-2"^2)}{4}$ | 10'-0" | 125 | Cft. |
| Add 5% for gaps between the cc. lining and circumscribed Circle. | | | | | $\frac{6}{131}$ | Cft. cft. |
| 2(b) -do- extra excavation with excavated stuff -do- including watering ramming etc. complete. | | | | | | |
| Depth. | | | | | | |
| 1.5' from G.L. to 5' Bottom diameter 12'-0"<br>Top diameter 19'-0"<br>Mean diameter 15'-6" | | 1 | $\frac{II(15'\ 6"^2-9'-2"^2)}{4 \quad 3'-6"}$ | | 428 | cft. |
| 5' to 30' | | 1 | $\frac{II}{4}(10^2-9'-2"^2)$ | 25'-0" | 313 | " |
| | | | | | 741 | " |
| Add 5% for gaps between c.c. lining and circumscribed circle. | | | | | 37 | " |
| | | | | | 778 | " |
| 2(c) -do- extra excavation with stone filling -do- including watering,ramming etc.complete | | | | | | |
| Depth | | | | | | |
| 0' to 1.5' Bottom diameter 19'-0"<br>Top diameter 22'-0"<br>Mean diameter 20'-6" | | 1 | II $\frac{(20'-6"-9'-2")^2}{4}$ | 1'-6" | 398 | Cft. |
| Add 5% for gaps between c.c. lining and circumscribed circle. | | | | | 20 | " |
| | | | | | 418 | " |
| (3) Parapet - Providing c.c. lining (1:2:4) 6" thick with panel reinforcement including from work,curing,watering etc. complete. | | 6 | $\frac{4' \ 4'-7"}{2}$ | 0'-6"-Ø 3'-0" | 38.70 | " |
| Deducted for rahat opening | | 6 | 0'-11 1/8" | 0'-6" 1'-0" | 2.79 | " |
| -do- for pulley openings. | | 2 | 0'-11 1/8 | 0'-6" 1'-0" | 0-93 | " |
| -do- for Mukti stones | | 8 | 1'-0" | 0'-6" 0'-9" | 3.00 | |
| Net quantity. | | | | | Total deductions. 6.72 or say 31.98 | Cft. " 32. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| (4) Providing paving for platform in uncoursed rubble masonry 6" thick in cement mortar (1:6) laid on 6" cement concrete (1:3:6) well rammed and projecting 6" beyond the edge of masonry with necessary slopes for discharge of waste water including cement pointing etc. complete. | | | | | | |
| | .6 | $\frac{(4'-7" - 8'-0")}{2}$ | | 3'-0" | 113 | cft. |
| (5)Providing 5/8" flat iron steps at the junction of every two curbs each of 2'-0" height leaving top 4 ft. including fixing, coal tarring etc. complete. | 18 | | | | 18 | Nos. |
| (6) Providing stone curbing wall $13\frac{1}{2}$"x4" projecting $4\frac{1}{2}$" above platform level to act as gutter for leading spilt water to drain. | 6 | 8'-3" | | | 49.5 or say 50 | " Rft. |
| (7)Providing and fixing trap stone or cement concrete Mukti slabs in cement mortar (1;6) including boring holes and cement pointing etc. complete. | | | | | | |
| Pair of stones size 3'x12" x 9" | 4 | | | | 4 | Nos |
| Rahats - 3 Nos. Pulley - 1 No. | | | | | | |
| (8)Providing and fixing cut teak wood including finishing coal tarring etc. complete. | | | | | | |
| For rahat posts. | 4 | 6'-6" | 0'-4" | 0'-6" | 4.32 | .sft |
| For pulley(2 verticals 4'-1" each and one horizontal 2'-10"). | 1 | 11'-0" | 0'-4" | 0'-4" | $\frac{1.22}{5.54}$ | " " |
| | | | say. 5.5 cft. | | | |
| (9) -do- angle iron stays for rahat posts with necessary bolts and nuts etc. complete. | | | | | | |
| Size of L - $1\frac{1}{4}$"x$1\frac{1}{4}$"x$\frac{1}{4}$" | 4 | 3'-0" | | | 12 | Rft |
| (10)-do- foundation bolts with necessary nuts for anchoring rahat horizontals. | 4 | | | | 4 | Nos. |
| (11)-do- Kirloskar pattorn iron rahat including fixing oiling, painting, etc.complete (Drum diameter 14") | 2 | | | | 2 | Nos.Two will be fixed to start with. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| (12)-do- iron pulley with necessary frame,bracket,bolts,nuts including fixing,oiling,painting etc.complete. | 2 | | | | 2 | No |
| (13) Providing 6" semicircular drain drain of cement concrete (1:4:8) laid on well rammed hard murum or boulder filling 6" thick with 6" projections on either side and back filling etc. complete. | 1 | 50'-0" | | | 50 | Rft. |
| (14)Tablet-Providing a stone or c.c. tablet 18"x15" with words "PUBLIC WELL" and the year of construction carved in regional language and fixed to the parapet of the well. | | | | | | |
| or alternatively the above words figures to be embossed while the parapet lining is green. | 1 | | | | 1 | No. |
| (15) Providing earth filling all round the platform for approach including ramming etc. complete | | | | | Job | |
| (16) Bailing out water during construction as may be found necessary. | | | | | Job | |
| (17) Clearing of the well by bailing out water and removal of silt and fallen debris during construction. | | | | | Bob | |

Sub-estimate No.3 - Soak Pit. )
Sub-estimate No.4 - Cattle Trough. )

Same as included in the type estimate for 4'-0" Pentagonal well.

PAF.

Recapitulation of costs

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Type estimate for a Village Water Supply Well.

4'-0" Pentagonal, 7" thick cement concrete lined.

40'-0" deep in rocky soils (Hyderabad Type).

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| | | |
|---|---|---|
| Sub-estimate No.1 | (1) | Excavation portion. |
| Sub-estimate No.2 | (2) | Steining in c.c. lining, parapet platform etc. |
| Sub-estimate No.3 | (3) | Soak Pit. |
| Sub-estimate No.4 | (4) | Cattle Trough |

Add contingencies at %

Add work-charged establishment at %

Net cost Rs.

Add % Establishment and Tools and Plant charges.

Gross cost Rs.

Sd/- N. V. S. Murti,
Chief Engineer to Government,
Public Works Department, Bombay.

PAF.

Type estimate for a Village Water Supply Well 4'-0" Pentagonal, 6" thick cement concrete lined 40'-0" deep in rocky soils (Hyderabad Type).

| Quantity: | Items. | Rate | Per | Amount |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| | Sub-estimate No.1 Execavation Portion. | Rs. | | Rs. |
| 1,135 cft | (1) Excavation in soil soft murum and other soft materials with side slopes of 1 to 1 including all lead, stated lift and steacking of materials neatly, etc. Complete 0' to 5'. | | 100 Cft | |
| 393 " | (2) Excavation in hard murum and similar stuff including all lead, stated lift, stacking of materials neatly as directed, etc. complete. 5' to 10'. | | - do - | |
| 1,178 cft | (3) Excavation in soft rock and similar stuff including all lead, stated lift, stacking of materials neatly as directed etc. complete. 10' to 25'. | | - do - | |
| 1,185 cft. | (4) Excavation in hard rock by blasting with all lead, stated lift, stacking of materials neatly as directed including dressing of bottom portion, etc. complete 25' to 40'. | | - do - | |
| Job | (5) Bailing out water during excavation as may be found necessary. | | Lump | |
| Job | (6) Testing the yield of well departmentally (if necessary) | | Lump | |
| | | Grand Total | | Rs. |
| | Sub-estimate No.2, Steining of c.c. lining platform, parapet, etc. | | | |
| 436 Cft. | (1) Providing cement concrete linging (1:3:6) 6" thick properly mixed rammed and cured including rendering and pointing between curbs with cement mortar (1:3) using moulds of proper size, watering, with weep holes for bottom 10'-0" height etc. complete. | | | |
| 297 Cft. | (2)(a) Filling extra excavation with boulders made available during excavation behind c.c. lining for bottom 10'-0" depth including ramming etc. complete. | | 100 Cft. | |
| 1252 Cft. | (b) Filling extra excavation with excavated stuff made available during excavation behind c.c. lining including waterring etc., complete. Depth 1'-6" to 30' below ground level. | | 100 cft | |
| 441 Cft. | (c) Filling extra excavation with stone filling made available during excavation behind c.c. lining including watering etc. complete 0' to 1'-6". | | -do- | |

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| 28 Cft. | (3) Parapet - Providing c.c. lining (1:2:4:)6" thick panel reinforcement including form work curing, rendering, pointing between curbs, watering etc. complete. | | Cft. | |
| 140 Cft. | (4) Providing paving for platform in uncoursed rubble masonry 6" thick in cement morter (1:6) laid on 6" cement concrete (1:3:6:) well rammed and projecting 6" beyond the edge of masonry with necessary slopes for dis charge of waste water including cement pointing, etc. complete. | | 100 Cft. | |
| 18 No | (5) Providing 5/8 flat iron steps at the junction of every two curbs each of 2'-0" height, leaving top 4 feet of c.c. lining including fixing, painting etc. complete. | | No | |
| 48 Rft. | (6) Providing stone kerbing wall 13½" x 4" projecting 4½ above platform level to act as gutter for leading spilt water to drain. | | | |
| 4 No. | (7) Providing and fixing trap stone or cement concrete Mukti stones in cement mortar (1;_) including boring holes and cement pointing etc. complete. | | No. | |
| 3.38 Cft. | (8) Providing and fixing cut teak wood work including finishing, coal tarring etc. complete. | | Cft. | |
| 6 Rft. | (9) Providing angle iron stays for rahat posts with necessary bolts and nuts etc. complete. | | Rft. | |
| 2 Nos. | (10) Providing foundation bolts 5/8" diameter with necessary nuts for anchoring rahat horizontals. | | No. | |
| 2 No. | (11) Providing Kirloskar pattern iron rahat including paintaing etc. complete. or | | No. | |
| 2 No. | (12) Providing iron pulley with necessary frame, bracket, bolts, nuts, etc. including painting. complete. | | No. | |
| 50 Rft. | (13) Providing 6" semi-circular drain of cement concrete (1:4:8) laid on wellrammed hard murum on boulder filling 6" thick with 6" projections on either side and back filling etc. complete. | | Rft. | |
| 1 No. | (14) Tablet-Providing a stone or c.c. table 18"x15" with words "PUBLIC WELL and the year of construction in regional language and fixed to the parapet wall or alternately the above words and figures to be embosed while the parapet lining is green. | | No. | |

Job.....

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Job | (15) Providing earth filling all round the platform for approach including ramming,watering, etc. complete. | | | Lump |
| Job | (16) Bailing ~~water~~ out water during construction as may be found necessary. | | | Lump. |
| Job | (17) Clearing of the well by bailing out water and removal of silt and fallen debris, etc. | | | Lump |
| | Grand Total | | | Rs. |
| | Sub-estimate No.3 Soak Pit. | | | |
| 180 Cft. | (1) Excavation in soil and murum including necessary lead and lift. | | | 100 Cft. |
| 83 Cft. | (2) (a) Providing walls in brick or uncoursed rubble masonry in cement mortar (1:10) upto 3" above ground level. | | | -do- |
| 2. Cft. | (b) -do- for extra height on drain side. | | | -do- |
| 61 Cft. | (3) Filling with brick bats or dry rubble. | | | -do- |
| 41 Cft. | (4) Filling with sand and bhingle. | | | -do- |
| | Grand Total | | | Rs. |
| | Sub-estimate No.4 Cattle Trough. | | | |
| 79 Cft. | (1) Excavation in soil and murum inclusing necessary lead and lift. | | | 100 Cft |
| 48 Cft. | (2) Providing boulder filling or hard murum obtained during excavation well ra mmed etc. | | | 100 Cft. |
| 24 Cft. | (3) Filling in cement concrete (1:3:6) including ramming,watering etc. complete. | | | -do- |
| 40 Cft. | (4) Providing uncoursed rubble masonry in cement mortar (1:5) for walls all round. | | | 100 Cft. |
| 73 Cft. | (5) Providing 3/4" thick cement plaster (1:3) proportion including finishing,watering,etc. complete. | | | -do- |
| 1 No. | (6) Providing and fixing eash out pipe 2" in diameter and 2'-0" long. | | | No. |
| | Grand Total | | | Rs. |

## MEASUREMENT.

Type estimate for a Village Water Supply Well.
4'-0" Pentagonal, 6" thick c.c. lined.
40'-0" deep, in rocky soils (hyderabd Type).

| | No | Lenght | Breadth | Depth | Quantity | Total |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 1 |
| **Sub-estimate No.1-Excavation Portion.** | | | | | | |
| (1) Excavation in soil, sogt murum and other softmaterials with side slopes of 1 to 1 including all lead, stated lift steacking of materials neatly etc. | 1 | Area $\frac{\Pi \times 17^2}{4}$ | | 5'-0" | 1,135 | Cft. |
| Depth Bottom Diameter 12'<br>0' to 5' Top Diameter 22'<br>Mean Diameter 17' | | | | | | |
| (2) Excavation in hard murum and similar stuff including all lead stated lift, stacking of materials neatly, etc. | 1 | $\frac{\Pi \times 10^2}{4}$ | | 5'-0" | 393 | Cft. |
| 5'-to 10' Diameter 10'-0" | | | | | | |
| (3) -do- insoft rock -do- 10 to 25' Diameter 10'-0" | 1 | $\frac{\Pi \times 10^2}{4}$ | | 15'-0" | 1,178 | " |
| (4) -do- in hard rock -do- 25 to 40'-Diameter 10'-0" | 1 | $\frac{\Pi \times 10^2}{4}$ | | 15'-0" | 1,178 | " |
| For sump of 3'-0" diameter and 1'0" deep. | 1 | $\frac{\Pi \times 3^2}{4}$ | | 1'-0" | 7 | " |
| | | | | | 1,185 | Cft. |
| (5) Bailing out water during excavation as may be found necessary. | | | | | Job | |
| (6) Testing the yield of the well departmentally if necessary). | | | | | Job | |
| **Sub-estimate No.2 Steining of c.c. platform, parapet etc.** | | | | | | |
| (1) Providing cement concrete lining (1:3:6) 6" thick properly mixed rammed and cured including rendering and pointing between curbs, with cement mortar (1:3) using moulds of proper size, watering, with weep holes for bottom 10'-0" height ect. complete. | 5 | $\frac{4' + 4' - 0'-6"}{2} \times 8 \times 3$ | | 40'-0" | 436 | Cft. |
| (2)(a) Filling extra excavation with boulders made available during excavation behind c.c. lining for bottom 10'-0" depth including ramming etc. complete. | | | | | | |
| Diameter of circumscribed Circle - 8'-0" | 1 | $\frac{\Pi(10^2 - 8^2)}{4}$ | | 10'-0" | 283 | " |
| Add..... | | | | | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|

dd 5% gaps between c.c. lining and circumscribed circle. — 14/297 " Cft.

(b) Filling extra excavation with excavated stuff made available ruding excavation behind c.c. lining for bottom 10'-0" depth including ramming etc. complete.

From 1.5 to 5'
Bottom 12'-0"
diameter top
diameter 19'-0"
Mean — 1 $\Pi\frac{(15.5^2-8^2)}{4}$ 3'-6" 485 Cft.

from 5' to 30' — 1 $\Pi\frac{(10^2-8^2)}{4}$ 25'-0" 707 Cft

1,192 Cft.
60 "
1252 Cft.

Add 5% for gaps between c.c. lining and circumscribed circle.

(c) -do- extra excavation with stone filling - do - Complete.

From 0' to 1.5" Bottom
diameter 19'-0"
Top
diameter 22'-0"
Mean dia-
meter. 20'-6" — 1 $\Pi\frac{(20.5^2-8^2}{4}$ 1'-6" 420 Cft

Add 5% for gaps between c.c. linning and circumscribed circle. — 21 Cft.
441 Cft.

(3) Parapet - Providing c.c. lining (1;2:4) 6" thick with panel reinforcement including form work, curing, rendering, pointing between curbs watering etc. complete. — 5 $\frac{4'-4'-8.2/3}{2}$ 0'-6" 3'-0" 33 Cft.

Deduct for rahat openings. — 4 0'-11-1/8" 0-6" 1'-0" 1.86 "

Deduct for pulley openings — 2 0'-11-1/8" 0'-6" 1'-0" 0.93 "

Deduct for Mukti stores — 6 1'-0" * 0'-9" 0'-6" 2.25 "
- 5.04 Cft.
Net quantity 27.96 "
or say 28 "

(4) Providing paving for platform in uncoursed rubble masonry 6" thick in cement mortar (1:6) laid on 6" cement concrete (1:3:6) well rammed and projecting 6" beyond the edge of masonry with necessary slopes for discharge of waste water including cement pointing etc. complete. — 5 Area of trapezium 28 sq. ft. — 140 Sft.

Area of trapezium - $\frac{4'-8.2/3" - 10'-3"}{2}$ x 3' -9"
- 28 sq. ft.

(5).....

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| (5) Providing 5/8" flat iron steps at the junction of every two curbs each of 2'-0" height, leaving top 4 feet of c.c. lining including fixing, painting etc. complete. | 18 | | | | 18 | Nos. |
| (6) Providing stone kerbing wall 13½" x 4" projecting 4½ above platform level to act as gutter for leading spilt water to drain. | .5 | 9'-6" | | | 47.5<br>or say 48 | Rft<br>Rft |
| (7) Providing and fixing trap stone or cement concrete Mukti stones in cement nortar (1:6) including boring holes and cement pointing etc. complete. | | | | | | |
| Pair of stores each of size- 3' x 12" x 9" | 4 | | | | 4 | Nos |
| (8) Providing and fixing cut teak w wood work including finishing, coal tarring, etc. complete. | | | | | | |
| For rahat posts | 2 | 6)-6" | 0'-4" | 0'-6" | 2.16 | Cft |
| For pulley | 1 | 11'-0" | 0'-4" | 0'-4" | 1.22<br>3.38 | "<br>Cft |
| (9) -do- angle iron stays for rahat posts with necessary bolts and nuts etc. complete. | | | | | | |
| Size of L 1¼ x 1¼" x ¼" | 2 | 3'-0" | | | 6 | Rft. |
| (10) -do- foundation bolts 5/8" diameter with necessary nuts for anchoring rahat | 2 | | | | 2 | Nos |
| (11) -do- Kirloskar pattern iron rahat including painting etc. complete (Diameter of drum- 14"). | 2 | | | | 2 | Nos |
| or | | | | | | |
| (12) -do- iron pulley with necessary frame, bracket, bolts, nuts, etc. including pointing. complete. | 2 | | | | 2 | No. |
| (13) Providing 6" semicircular drain of cement concrete (1:4:8) laid on well rammed hard murum or boulder filling 6" thick with 6" projectionns on either side and back filling etc. complete. | 1 | 50'-0" | | | 50 | Rft |
| (14) Table - Providing a stone or c.c. tablet 18"x15" with words PUBLIC WELL and the year of construction in regional lahguage and fixed to the parapet | | | | | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| parapet wall oralternately the above words and figures to be embossed while the parapet lining is green. | 1 | | | | 1 | No |
| (15) Providing earth filling call round the platform for approach including ramming,watering,etc. complete. | | | | Job | | |
| (16) Bailing out water during construction as may be found necessary. | | | | Job | | |
| (17) Clearing of the well by bailing out water and removal of silt and fallen debris etc. | | | | Job | | |
| Sub-estimate No.3 Soak Pit. | | | | | | |
| (1) Excavation in soil and murum including necessary lead and lift. | 1 | 6'-0" | 6'-0" | 5'-0" | 180 | Cft |
| (2) (a) Providing walls in brick or uncoursed rubble masonry in cement mortar (1:10) upto 3" above ground level. | 1 | 21'-0" | 0'-9" | 5'-3" | 83 | Cft |
| (b) -do- for extra height on drain side | 1 | 3'-3" | 0'-9" | 0'-9" | 2 | Cft. |
| | | | | | 85 | Cft. |
| (3) Filling with brick bats or dry rubble. | 1 | 4'-6" | 4'-6" | 3'-0" | 61 | Cft. |
| (4) Filling with sand and shingle | 1 | 4'-6" | 4'-6" | 2'-0" | 41 | Cft. |
| Sub-estimate No.4 Cattle Through | | | | | | |
| (1) Excavation in soil and murum including necessary lead and lift. | 1 | 11'-6" | 5'-6" | 1'-3" | 79 | Cft |
| (2) Providing boulder filling or hard murum obtained during excavation well rammed etc. | 1 | 11'-6" | 5'-6" | 0'-9" | 48 | Cft. |
| (3) Filling in cement concrete (1;3:6) including ramming,watering, etc. complete. | 1 | 10'-6" | 4'-6" | 0'-6" | 24 | Cft. |
| (4) Providing uncoursed rubble masonry in cement mortar (1:5) for walls all round. | 1 | 23'-0" | 1'-1½" | 1'-6" | 40 | Cft |
| (5) Providing 3/4" thick cement plaster (1:3) proportion including finishing,watering,etc.complete | | | | | | |
| Bed | 1 | 7'-6" | 1'-6" | | 11 | Sft |
| Inside of wall | 1 | 19'-0" | 1'-3" | | 24 | Sft |
| Top segment portion | 1 | 24'-0" | 1'-7" | | 38 | Sft |
| | | | | | 73 | Sft |
| (6) Providing and fixing wash out pipe 2" in diameter and 2'-0" long. | 1 | | | | 1 | No. |

PAF.

## Village Water Supply Scheme

Government of Bombay,
Local Self Government and Public Health Department,
Circular No.S.92,
Bombay Castle, 5th October 1950.

### Circular of Government.

In amplification of the orders issued in paragraph 2 of Government Circular,Local self Government and Public Health Department No.S.92, dated 20th June 1950 Government is pleased to make it clear that where there is one well or a tank in a village, that provides drinking water throughout the year, the work of a second well or tank should not be carried out irrespective of the consideration whether the work is of original or repairs nature, and where there is a deficiency of supply of drinking water from a well or a tank in a village throughout the year an additional well or tank work either of original or repairs nature can be taken up so as to augment the supply of potable water throughout the year Once this deficiency is made good, no further additional well or tank work even of repairs nature be taken up against the present 5 years' scheme.

By order of the Governor of Bombay,
B. J. Joshi,
Under Secretary to Government.

TO:

The Directors of Local Authorities,
Agmedabad,Poona and Belgaum;

All Collectors (except the Collector of Bombay and Bombay Suburban Distric),with spare copies for supply to District Local Boards.

The Director of Public Health,Poona,
The Superintending Engineers of Circles,
The Public Health Engineer to Government,
All Executive Engineers,
The Accountant General,Bombay,
The Examiner Local Fund Accounts,
The Secretary Legislative Department,
The Director of Publi city,
The Reconstruction Department,
The Revenue Department,
The Public Works Department,
The Finance Department.

PAF.